Inventors: Stephen W. Scherer, et al.
Annotated Sheet

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# Fig 6A

1	atggcggccg	aagcctcgga	gagcgggcca	gcgctgcatg	agctcatgcg	cgaggcggag
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121	ccgcgcaacc	tgtcctgcgg	ccacgtggtc	tgcctggcct	gcgtggccgc	cctggcgcac
181	ccgcgcactc	tggccctcga	gtgcccattc	tgcaggcgag	cttgccgggg	ctgcgacacc
241	agcgactgcc	tgccggtgct	gcacctcata	gagctcctgg.	gctcagcgct	togocagtoc
301	ccggccgccc	atcgcgccgc	ccccagcgcc	cccggagccc	tcacctgcca	ccacaccttc
361	ggcggctggg	ggaccctggt	caaccccacc	ggactggcgc	tttgtcccaa	gacggggcgt
421	gtcgtggtgg	tgcacgacgg	caggaggcgt	gtcaagattt	ttgactcagg	gggaggatgc
481	gcgcatcagt	ttggagagaa	gggggacgct	gcccaagaca	ttaggtaccc	tgtggatgtc
541	accatcacca	acgactgcca	tgtggttgtc	actgacgccg	gcgatcgctc	catcaaagtg
601	tttgattttt	ttggccagat	caagcttgtc	attggaggcc	aattctcctt	accttggggt
661	gtggagacca	cccctcagaa	tgggattgtg	gtaactgatg	cggaggcagg	gtccctgcac
721	ctcctggacg	tegaettege	ggaaggggtc	cttcggagaa	ctgaaaggtt	gcaagctcat
781	ctgtgcaatc	cccgaggggt	ggcagtgtct	tggctcaccg	gggccattgc	ggtcctggag
841	caccccctgg	ccctggggac	tggggtttgc	agcaccaggg	tgaaagtgtt	tagctcaagt
901	atgcagcttg	toggecaagt	ggataccttt	gggctgagcc	tctactttcc	ctccaaaata
961	actgcctccg	ctgtgacctt	tgatcaccag	ggaaatgtga	ttgttgcaga	tacatctggt
1021	ccagctatcc	tttgcttagg	aaaacctgag	gagtttccag	taccgaagcc	catggtcact
1081	.catggtcttt	cgcatcctgt	ggctcttacc	ttcaccaagg	agaattctct	tcttgtgctg
1141	gacacagcat	ctcattctat	aaaagtctat	aaagttgact	gggggtgatg	ggctggggtg
1201	ggtccctgga	atcagaagca	ctagtgctgc	cattaatgaa	ttgtttaacc	ctggataagt
1261	cacttaaact	catctatcca	ggcagggata	attaasacca	tctggcagac	ttacaaagct
1321	tgggacagtt	attggagatt	aatctaccat	ttattgaatg	catactctgt	gcaaggaaat
1381	ttgcaaatat	tagcttattt	aatctgtact	atccagtgag	gtaatttctt	ccccccaag
1441	atagagtcaa	gctctgtcac	ccaggctgga	gtgcagaagc	atgatcacag	ctcactacag

SEQ 10 NO: 1

Inventors: Stephen W. Scherer, et al.

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Fig 6B

#### EPM2B protein sequence

MAAEASESGPALHELMREAEISLLECKVCFEKFGHRQQRRPRNLSCGHVV CLACVAALAHPRTLALECPFCRRACRGCDTSDCLPVLHLIELLGSALRQS PAAHRAAPSAPGALTCHHTFGGWGTLVNPTGLALCPKTGRVVVVHDGRRR VKIFDSGGGCAHQFGEKGDAAQDIRYPVDVTITNDCHVVVTDAGDRSIKV FDFFGQIKLVIGGQFSLPWGVETTPQNGIVVTDAEAGSLHLLDVDFAEGV LRRTERLQAHLCNPRGVAVSWLTGAIAVLEHPLALGTGVCSTRVKVFSSS MQLVGQVDTFGLSLYFPSKITASAVTFDHQGNVIVADTSGPAILCLGKPE EFPVPKPMVTHGLSHPVALTFTKENSLLVLDTASHSIKVYKVDWG

Inventors: Stephen W. Scherer, et al.

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# Fig 7A

# Promoter (5') sequence:

1	CCCCAAGGCC	CCCCCGGCCC	CCAGGCAACC	CCAGGCCCCC	AGGCAACCCA
· 51	AGGCCCCCG	GCCCCAAGCC	CCCCAGGTTC	CCGGCCCCAA	GAACCAAGCC
101	CCCCGGCCCC	CCGCCCCCAG	CACCCAGCAC	CAAGCCCCCAA	CCCCCCCCCC
151	CAAGCACCCA	GCCCCAGCAC	CCAGCCCCCG	CCCCAGCCCC	AGCCCCAGCA
201	CCCAGCCCCC	GCCCCAGCÀC	CCAGCCCCAG	CACCCAGCCC	CCGCCCCAGC
251	CCCAGCCCCC	GTCCCCCCCC	CCAGCACCCA	GCCCCAGCCC	CAGCAGCAGC
301	ACCCAGCAGG	GGACTGCAAA	GCGTAGGCTA	CCCCAGCCC	AACACCCTCT
351	TCTAGTTTTG	CTTGCCGTT	TGCAGCCTGG	GCCATCGCCC	CCCACCCCTC
401	GAGCCTGTTT	CCCGTCGCGG	AAAGCGGAGC	CCCCCCCCC	CCCCCCCCCC
451	CTGCCTGAAG	GTCACGGGCC	TEÉGCCTECE	CCCCCCCCCC	CCCCCCCCC
501	GCGTCCGCTC	CCGCGCCCTC	CGCAGTCAGC	CCCCCCCCCC	CCCCCCCCCA
551	ACCGCAGGCC	GCGGCCGAGA	GGCTGCGCGC	Teccecce	ACCTCACCGG
601	CCGCCCCGCC	CCGCCCCCCC	CCTCACCCC	CCCCCCCCCC	ACGICAGGCC
651	CCGCCCCCC	ACCGAGCGGC	CCCCCCCCCC		GCCCCGGCC
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#### ·Coding sequence:

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701	GGGGCCGAAG		CGGGCGGGCG	CTGCGGGAGC	TGGTGCGCGA
751	GGCCGAGGTC		AGTGCAAGGT		
801	ACCGCCAGCA	GCGGCGCCCG	CGCAACcTGC		
851	CTGGCCTGCG	TGGCGGCCCT	GGCGCACCCG		
901	כככבדבונו	CGCCGGGCCT	GCCGCGGCTG		
951	CGGTGCTTCA	CCTCCTGGAG	CTCCTGGGCT		CCCAGCCCCC
1001	GCCGCCCCCC	GCGCCGCCCC			
1051	CGCCTGCCAT	CACGCGTTCG	GAGGCTGGGG		AACCCCACGG
1101	GGCTGGCGCT	GTGCCCCAAG	ACCGGGCGG		GCACGACGGC
1151	AGGAGGCGGG		TGACTCCGGG		CCCATCAGTT
1201	TGGAGAGAAG	GGGGAGGCTG	CCCAGGACAT		CTGGACGTCG
1251	CCGTCACCAA	CGACTGCCAC	GTGGTTGTCA	CCGACGCCGG	
1301	ATCAAAGTGT	TTGÄTTTCTT	TGGCCAGATC	AAGCTCGTCA	
1351	GTTTTCCTTA	CCTTGGGGCG	TGGAGACCAC		GGGTCGTGG
1401	TAACTGACGC	CGAGGCAGGG	TCGCTGCACC		CGACTITGCA
1451	GAAGGAGCCC	TCCAGAGGAC	TGAAAAGCTG	CAAGGTCATC	TGTGCAACCC
1501	GCGAGGGGTG	GCCGTGTCCT	GGCTCACTGG	GGCCATTGCG	GTCCTGGAGC
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1601	AGCCCAACTA	TGCAGCTGAT	CGGCCAGGTG	GATACCTTTG	GGCTCAGCCT
1651	CTTTTTCCCC	TCTAGAATAA	CCGCCTCCGC	CGTGACCTTT	GATCACCAGG
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1801	CCATCCTGTG	GCACTGACCT	TCACCAAGGA	GAATTCTCTT	CTTGTGCTGG
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SEQ ID NO: 3

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Inventors: Stephen W. Scherer, et al.

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### Fig 7B

Met Gly Ala Glu Ala Ala Gly Ser Gly Arg Ala Leu Arg Glu Leu Val 1 5 10 15

Arg Glu Ala Glu Val Ser Leu Leu Glu Cys Lys Val Cys Phe Glu Arg 20 25 30

Phe Gly His Arg Gln Gln Arg Arg Pro Arg Asn Leu Pro Cys Gly His 35 40

Val Val Cys Leu Ala Cys Val Ala Ala Leu Ala His Pro Arg Thr Leu 50 60

Ala Leu Glu Cys Pro Phe Cys Arg Arg Ala Cys Arg Gly Cys Asp Thr 65 75 75 80

Ser Asp Cys Leu Pro Val Leu His Leu Leu Glu Leu Gly Ser Ala 85 90 95

Leu Arg Pro Ala Pro Ala Ala Pro Arg Ala Ala Pro Arg Ala Ala Pro
100 105 110

Cys Ala Pro Gly Ala Leu Ala Cys His His Ala Phe Gly Gly Trp Gly 115 120 125

Thr Leu Val Asn Pro Thr Gly Leu Ala Leu Cys Pro Lys Thr Gly Arg 130 135 140

Val Val Val His Asp Gly Arg Arg Arg Val Lys Ile Phe Asp Ser 145 150 155 160

Gly Gly Gly Cys Ala His Gln Phe Gly Glu Lys Gly Glu Ala Ala Gln 165 170 175

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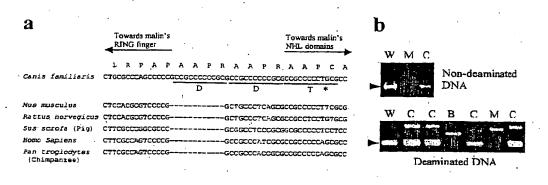
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Inventors: Stephen W. Scherer, et al.

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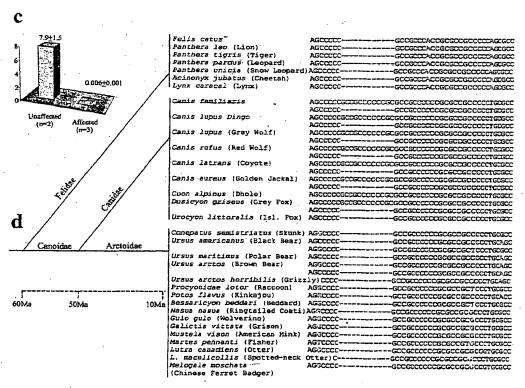


Fig 10

SEQ. ID NOS: 6-52

)1449

Inventors: Stephen W. Scherer, et al.

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J4/001449

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Fig 6A

1 atggcggccg aagcctcgga gagcgggcca gcgctgcatg agctcatgcg cgaggcggag 61 atcageetge tegagtgeaa ggtgtgettt gagaagtttg gecaeeggea geageggege 121 ccgcgcaacc tgtcctgcgg ccacgtggtc tgcctggcct gcgtggccgc cctggcgcac 181 ecgegeacte tggecetega gtgeceatte tgeaggegag ettgeegggg etgegaeace 241 agegactgcc tgccggtgct gcacctcata gagctcctgg gctcagcgct tcgccagtcc 301 ccggccgccc atcgcgccgc ccccagcgcc cccggagccc tcacctgcca ccacaccttc 361 ggcggctggg ggaccctggt caaccccacc ggactggcgc tttgtcccaa gacggggcgt 421 gtcgtggtgg tgcacgacgg caggaggcgt gtcaagattt ttgactcagg gggaggatgc 481 gcgcatcagt ttggagagaa gggggacgct gcccaagaca ttaggtaccc tgtggatgtc 541 accatcacca acgaetgeca tgtggttgtc actgaegecg gegategetc catcaaagtg 601 tttgattttt ttggccagat caagettgte attggaggee aatteteett acettggggt 661 gtggagacca cccctcagaa tgggattgtg gtaactgatg cggaggcagg gtccctgcac 721 ctcctggacg tcgacttcgc ggaaggggtc cttcggagaa ctgaaaggtt gcaagctcat 781 ctgtgcaatc cccgaggggt ggcagtgtct tggctcaccg gggccattgc ggtcctggag 841 cacccctgg ccctggggac tggggtttgc agcaccaggg tgaaagtgtt tagctcaagt 901 atgragettg teggeraagt ggatacettt gggetgagee tetaetttee etecaaaata 961 actgcctccg ctgtgacctt tgatcaccag ggaaatgtga ttgttgcaga tacatctggt 1021 ccagctatec titgettagg aaaacetgag gagtttecag tacegaagee catggteact 1081 catggtetti egeateetgt ggetettace tteaccaagg agaattetet tettgtgetg 1141 gacacagcat ctcattctat aaaagtctat aaagttgact gggggtgatg ggctggggtg 1201 ggtccctgga atcagaagca ctagtgctgc cattaatgaa ttgtttaacc ctggataagt 1261 cacttaaact catctatcca ggcagggata attaaaacca tctggcagac ttacaaagct 1321 tgggacagtt attggagatt aatctaccat ttattgaatg catactctgt gcaaggaaat 1381 ttgcaaatat tagcttattt aatctgtact atccagtgag gtaatttctt ccccccaag 1441 atagagtcaa gctctgtcac ccaggctgga gtgcagaagc atgatcacag ctcactacag

Inventors: Stephen W. Scherer, et al.

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Fig 6B

#### EPM2B protein sequence

MAAEASESGPALHELMREAEISLLECKVCFEKFGHRQQRRPRNLSCGHVV CLACVAALAHPRTLALECPFCRRACRGCDTSDCLPVLHLIELLGSALRQS PAAHRAAPSAPGALTCHHTFGGWGTLVNPTGLALCPKTGRVVVVHDGRRR VKIFDSGGGCAHQFGEKGDAAQDIRYPVDVTITNDCHVVVTDAGDRSIKV FDFFGQIKLVIGGQFSLPWGVETTPQNGIVVTDAEAGSLHLLDVDFAEGV LRRTERLQAHLCNPRGVAVSWLTGAIAVLEHPLALGTGVCSTRVKVFSSS MQLVGQVDTFGLSLYFPSKITASAVTFDHQGNVIVADTSGPAILCLGKPE EFPVPKPMVTHGLSHPVALTFTKENSLLVLDTASHSIKVYKVDWG

SEQ ID NO:2

1449

Inventors: Stephen W. Scherer, et al.

WO 2005/012526

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## Fig 7A

### Promoter (5') sequence:

1	CCCCAAGGCC	CCCCCGGCCC	CCAGGCAACC	CCAGGCCCCC	AGGCAACCCA
51	AGGCCCCCCC	GCCCCAAGCC	CCCCAGGTTC	CCGGCCCCCAA	GAACCAAGCC
101		CCGCCCCCAG	CACCCAGCAC	CAAGCCCCCG	cececècee
151	CAAGCACCCA	GCCCCAGCAC	CCAGCCCCCG	CCCCAGCCCC	AGCCCCAGCA
201	CCCAGCCCCC	GCCCCAGCAC	CCAGCCCCAG	CACCCAGCCC	CEGETETAGE
251	CCCAGCCCCC	GTCCCCCCCC	CCAGCACCCA	GCCCCAGCCC	CACCACCACC.
301	ALCCAGCAGG	GGACTGCAAA	GCGTAGGCTA	CCCCAGGTGG	AACACCGTGT
351	ICIAGIIIIG	CITIGCCGTT	TGCAGCCTGG	GCGATCGGGG	GCCACCGCTC
401	GAGCCIGIII	CCCGTCGCGG	AAAGCGGAGC	CGCCCCGCCC	CGCCCCCCC
451	CIGCCIGAAG	GTCACGGGCC	TGGGCCTGCG	GCGCGCGGTG	CGGCCCGCGA
501	GCGTCCGCTC	CCGCGCCCTC	CGCAGTCAGC	GCCCGCCCGC	כרפררפפפפפ
5 <b>51</b>	ACCUCAGGCC	GCGGCCGAGA	GGCTGCGCGC	TGCGCCCGCG	ACGTCAGGCC
601	CCGCCCCCCCCC	CCGCCCCGCC	CCGTGACCGG	CCCCGGCCCC	GGCCCCGGCC
651	CCGGCCCCGG	ACCGAGCGGC	GCCCGCGGGA	GCGGCGGCGG	CCGCGCG

#### Coding sequence:

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 801 ACCGCCAGCA GCGGCGCCCG CGCAACcTGC CCTGCGGCCA CGTGGTGTGC
 851 CTGGCCTGCG TGGCGGCCCT GGCGCACCCG CGGACGCTGG CCCTGGAGTG
        CCCCTTCTGC CGCCGGGCCT GCCGCGGCTG CGACACCAGC GACTGCCTGC
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GCCGCCCCC GCGCCGCCC CCGCGCCGCC CCCTGCGCC CGGGCGCCCT
CGCCTGCCAT CACGCGTTCG GAGGCTGGGG GACCCTGGTC AACCCCACGG
 951
1001
1101
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       TGGAGAGAGG GGGGAGGCTG CCCAGGACAT TAGGTACCCC CTGGACGTCG
1201
1251 CCGTCACCAA CGACTGCCAC GTGGTTGTCA CCGACGCCGG CGACCGCTCC
1301 ATCAAAGTGT TTGATTTCTT TGGCCAGATC AAGCTCGTCA TTGGAGACCA
1351 GTTTTCCTTA CCTTGGGGCG TGGAGACCAC CCCTCAGAAT GGGGTCGTGG
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1551
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1851 ACAGTGCAGC CCATTCCGTA AAAGTCTACA AGGCTGACTG GGGGTAA
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Appl'n No.: 10/567,074

Title: Lafora's Disease Gene
Inventors: Stephen W. Scherer, et al.

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## Fig 7B

Met Gly Ala Glu Ala Ala Gly Ser Gly Arg Ala Leu Arg Glu Leu Val Arg Glu Ala Glu Val Ser Leu Leu Glu Cys Lys Val Cys Phe Glu Arg Phe Gly His Arg Gln Gln Arg Arg Pro Arg Asn Leu Pro Cys Gly His 40 Val Val Cys Leu Ala Cys Val Ala Ala Leu Ala His Pro Arg Thr Leu Ala Leu Glu Cys Pro Phe Cys Arg Arg Ala Cys Arg Gly Cys Asp Thr Ser Asp Cys Leu Pro Val Leu His Leu Leu Glu Leu Leu Gly Ser Ala Leu Arg Pro Ala Pro Ala Ala Pro Arg Ala Ala Pro Arg Ala Ala Pro Cys Ala Pro Gly Ala Leu Ala Cys His His Ala Phe Gly Gly Trp Gly Thr Leu Val Asn Pro Thr Gly Leu Ala Leu Cys Pro Lys Thr Gly Arg Val Val Val His Asp Gly Arg Arg Val Lys Ile Phe Asp Ser Gly Gly Cys Ala His Gln Phe Gly Glu Lys Gly Glu Ala Ala Gln Asp Ile Arg Tyr Pro Leu Asp Val Ala Val Thr Asn Asp Cys His Val . Val Val Thr Asp Ala Gly Asp Arg Ser Ile Lys Val Phe Asp Phe Phe 200 Gly Gln Ile Lys Leu Val Ile Gly Asp Gln Phe Ser Leu Pro Trp Gly

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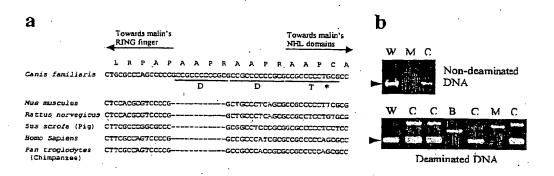
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Inventors: Stephen W. Scherer, et al.

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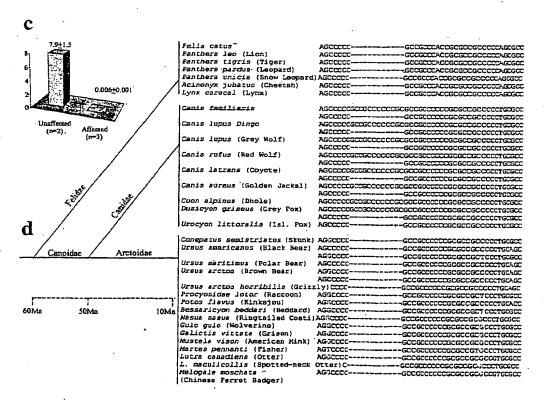


Fig 10

SEQ ID NOS: 6-52

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